

CHEMICALLY MODIFIED OLIGONUCLEOTIDE FOR SITE-
DIRECTED MUTAGENESIS

Abstract of the Invention

A mutagenic, triplex-forming oligonucleotide and methods for use thereof wherein the oligonucleotide is chemically modified to incorporate a mutagen and forms a triple-stranded nucleic acid molecule with a specific DNA segment of a target DNA molecule. Upon formation of the triplex, the mutagen is brought into proximity with the target molecule and causes a mutation at a specific site therein. The mutation activates, inactivates or alters the activity and function of the target molecule.